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Search Results -

Terms	Documents
(inactivat$ or disrupt$ or non-function$ or mutat$) near7 (alpha adj 1 adj 3 adj (galactosyltransferase or gt))	3

Database: US Pre-Grant Publication Full-Text Database; US Patents Full-Text Database; US OCR Full-Text Database; EPO Abstracts Database; JPO Abstracts Database; Derwent World Patents Index; IBM Technical Disclosure Bulletins

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DB=PGPB,USPT; PLUR=YES; OP=AND			
L4	(inactivat$ or disrupt$ or non-function$ or mutat$) near7 (alpha adj 1 adj 3 adj (galactosyltransferase or gt))	3	L4
L3	l1 and L2	1	L3
L2	porcine adj cell	437	L2
L1	(inactivat$ or disrupt$ or non-function$ or mutat$) near5 (alpha adj 1 adj 3 adj (galactosyltransferase or gt))	3	L1

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. 6849448. 04 Dec 97; 01 Feb 05. Pigs and pig cells having an inactivated .alpha. 1,3-galactosyl transferase gene. D'Apice; Anthony J. F., et al. 435/325; 435/320.1 435/455 536/23.1 536/23.5. C12N005/00 C12N015/00 C12N015/63 C07H021/02 C07H021/04 .

☐ 2. 6361775. 15 Oct 98; 26 Mar 02. Compositions and methods for vaccines comprising .alpha.-galactosyl epitopes. Galili; Uri, et al. 424/184.1; 424/155.1 424/156.1 424/218.1 424/277.1 424/278.1 424/816 530/387.1. A61K039/00 A61K039/38 A61K039/12 A61K039/395 C07K016/00 .

☐ 3. 5879675. 11 Sep 96; 09 Mar 99. Compositions and methods for vaccines comprising .alpha.-galactosyl epitopes. Galili; Uri, et al. 424/93.1; 424/155.1 424/156.1 424/159.1 424/184.1 424/218.1 424/277.1 424/278.1 424/816. A61K039/395 A61K039/12 A61K045/00 A01N063/00 .

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Terms	Documents
(inactivat$ or disrupt$ or non-function$ or mutat$) near7 (alpha adj 1 adj 3 adj (galactosyltransferase or gt))	3

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     (FILE 'HOME' ENTERED AT 18:38:54 ON 24 MAY 2006)

     FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH, LIFESCI' ENTERED AT 18:39:15 ON
     24 MAY 2006
L1           80 S (INACTIVAT? OR DISRUPT? OR NON-FUNCTION? OR MUTAT?)(5A)(ALPHA
L2           43 DUP REM L1 (37 DUPLICATES REMOVED)
L3         1433 S PORCINE(W)CELL
L4            1 S L2 AND L3

=> d au ti so pi 20-43 l2

L2   ANSWER 20 OF 43  BIOSIS  COPYRIGHT (c) 2006 The Thomson Corporation  on
     STN
AU   Koike, Chihiro [Reprint author]; Fung, John J.; Geller, David A.; Kannagi,
     Reiji; Libert, Therese; Luppi, Patrizia; Nakashima, Izumi; Profozich,
     Jennifer; Rudert, William; Sharma, Sugandha B.; Starzl, Thomas E.; Trucco,
     Massimo
TI   Molecular basis of evolutionary loss of the alpha1,3-galactosyltransferase
     gene in higher primates.
SO   Journal of Biological Chemistry, (March 22, 2002) Vol. 277, No. 12, pp.
     10114-10120. print.
     CODEN: JBCHA3. ISSN: 0021-9258.

L2   ANSWER 21 OF 43  CAPLUS  COPYRIGHT 2006 ACS on STN DUPLICATE 8
AU   Dai, Yifan; Vaught, Todd D.; Boone, Jeremy; Chen, Shu-Hung; Phelps, Carol
     J.; Ball, Suyapa; Monahan, Jeff A.; Jobst, Peter M.; McCreath, Kenneth J.;
     Lamborn, Ashley E.; Cowell-Lucero, Jamie L.; Wells, Kevin D.; Colman,
     Alan; Polejaeva, Irina A.; Ayares, David L.
TI   Targeted disruption of the .alpha.1,
     3-galactosyltransferase gene in cloned pigs
SO   Nature Biotechnology (2002), 20(3), 251-255
     CODEN: NABIF9; ISSN: 1087-0156

L2   ANSWER 22 OF 43  CAPLUS  COPYRIGHT 2006 ACS on STN
AU   Raeder, Roberta H.; Badylak, Stephen F.; Sheehan, Christine; Kallakury,
     Bhaskar; Metzger, Dennis W.
TI   Natural anti-galactose α1,3 galactose antibodies delay, but do not
     prevent the acceptance of extracellular matrix xenografts
SO   Transplant Immunology (2002), 10(1), 15-24
     CODEN: TRIME2; ISSN: 0966-3274

L2   ANSWER 23 OF 43  CAPLUS  COPYRIGHT 2006 ACS on STN
IN   Denning, Chris; Clark, John
TI   Animal tissue for xenotransplantation
SO   PCT Int. Appl., 86 pp.
     CODEN: PIXXD2
     PATENT NO.          KIND   DATE        APPLICATION NO.         DATE
     ---------------     ----   --------    --------------------    --------
PI   WO 2001088096        A2    20011122    WO 2001-US15765         20010514
     WO 2001088096        A3    20030710
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,
            HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,
            LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,
            RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,
            VN, YU, ZA, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG,
            KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR,
            IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN,
            GW, ML, MR, NE, SN, TD, TG
     US 2005287581        A1    20051229    US 2005-198685          20050804
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US 2006015955 A1 20060119 US 2005-198069 20050804

L2 ANSWER 24 OF 43 CAPLUS COPYRIGHT 2006 ACS on STN
IN Koike, Chihiro
TI Mammalian α1-3 galactosyltransferase genes and promoters and their uses
SO PCT Int. Appl., 138 pp.
CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001030992	A2	20010503	WO 2000-US29139	20001020
WO 2001030992	A3	20020131		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

CA 2426669	AA	20010503	CA 2000-2426669	20001020
US 2003203427	A1	20031030	US 2002-125994	20020419

L2 ANSWER 25 OF 43 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 9
AU Xu, Hui; Shama, Ajay; Chen, Libing; Harrison, Caren; Wei, Yuanyuan; Chong, Anita S.-F.; Logan, John S.; Byrne, Guerard W.
TI The structure of anti-Gal immunoglobulin genes in naive and stimulated Gal knockout mice
SO Transplantation (2001), 72(11), 1817-1825
CODEN: TRPLAU; ISSN: 0041-1337

L2 ANSWER 26 OF 43 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 10
AU Nozawa, Satoshi; Xing, Pei-Xiang; Wu, Gordon D.; Gochi, Eiji; Kearns-Jonker, Mary; Swensson, Joyce; Starnes, Vaughn A.; Sandrin, Mauro S.; McKenzie, Ian F. C.; Cramer, Donald V.
TI Characteristics of immunoglobulin gene usage of the xenoantibody binding to Gal-α(1,3)Gal target antigens in the Gal knockout mouse
SO Transplantation (2001), 72(1), 147-155
CODEN: TRPLAU; ISSN: 0041-1337

L2 ANSWER 27 OF 43 MEDLINE on STN DUPLICATE 11
AU Xing L; Xia G H; Fei J; Huang F; Guo L H
TI Adenovirus-mediated expression of pig alpha(1, 3) galactosyltransferase reconstructs Gal alpha(1, 3) gal epitope on the surface of human tumor cells.
SO Cell research, (2001 Jun) Vol. 11, No. 2, pp. 116-24.
Journal code: 9425763. ISSN: 1001-0602.

L2 ANSWER 28 OF 43 CAPLUS COPYRIGHT 2006 ACS on STN
AU Chong, A. S.-F.; Blinder, L.; Ma, L.; Yin, D.; Shen, J.; Williams, J. W.; Byrne, G.; Schwarz, A.; Diamond, L. S.; Logan, J. E.
TI Anti-galactose-α(1,3)galactose antibody production in α1,3-galactosyltransferase gene knockout mice after xeno- and allotransplantation
SO Transplantation Proceedings (2000), 32(5), 844-845
CODEN: TRPPA8; ISSN: 0041-1345

L2 ANSWER 29 OF 43 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 12
AU Tanemura, Masahiro; Maruyama, Shoichi; Galili, Uri
TI Differential expression of α-gal epitopes (Galα1-3Galβ1-4GlcNAc-R) on pig and mouse organs
SO Transplantation (2000), 69(1), 187-190
CODEN: TRPLAU; ISSN: 0041-1337

L2 ANSWER 30 OF 43 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 13
AU Chong, Anita S.-F.; Blinder, Leonard; Ma, Lianli; Yin, Dengping; Shen, Jikun; Williams, James W.; Byrne, Gerry; Schwarz, Alex; Diamond, Lisa S.; Logan, John E.
TI Anti-galactose-α(1,3) galactose antibody production in α1,3-galactosyltransferase gene knockout mice after xeno and allo transplantation
SO Transplant Immunology (2000), 8(2), 129-137
CODEN: TRIME2; ISSN: 0966-3274

L2 ANSWER 31 OF 43 CAPLUS COPYRIGHT 2006 ACS on STN
AU Galili, Uri; Tanemura, Masahiro
TI Significance of α-Gal (Galα1-3Galβ1-4GlcNAc-R) epitopes and α1,3 galactosyltransferase in xenotransplantation
SO Trends in Glycoscience and Glycotechnology (1999), 11(62), 317-327
CODEN: TGGLEE; ISSN: 0915-7352

L2 ANSWER 32 OF 43 CAPLUS COPYRIGHT 2006 ACS on STN
IN D'Apice, Anthony J. F.; Pearse, Martin J.; Robins, Allan J.; Crawford, Robert J.; Rathjen, Peter D.
TI Minimizing hyperacute rejection in human xenotransplantation by elimination of antigenic polysaccharides
SO U.S., 92 pp., Cont.-in-part of U.S. Ser. No. 188,607, abandoned.
CODEN: USXXAM

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 5849991	A	19981215	US 1995-378617	19950126
CA 2181433	AA	19950803	CA 1995-2181433	19950127
EP 755451	A1	19970129	EP 1995-907116	19950127
EP 755451	B1	20050525		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
BR 9506652	A	19970902	BR 1995-6652	19950127
AT 296349	E	20050615	AT 1995-907116	19950127
ES 2247588	T3	20060301	ES 1995-907116	19950127
US 6849448	B1	20050201	US 1997-984900	19971204
AU 9877428	A1	19981001	AU 1998-77428	19980721
AU 711144	B2	19991007		
US 2004171155	A1	20040902	US 2004-762888	20040121

L2 ANSWER 33 OF 43 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 14
AU Vanhove, Bernard; Charreau, Beatrice; Cassard, Armelle; Pourcel, Christine; Soulillou, Jean-Paul
TI Intracellular expression in pig cells of anti-α1,3 galactosyltransferase single-chain Fv antibodies reduces Galα1,3Gal expression and inhibits cytotoxicity mediated by anti-Gal xenoantibodies
SO Transplantation (1998), 66(11), 1477-1485
CODEN: TRPLAU; ISSN: 0041-1337

L2 ANSWER 34 OF 43 LIFESCI COPYRIGHT 2006 CSA on STN
AU d'Apice, A.J.F.; Pearse, M.J.; Robins, A.J.; Crawford, R.J.; Rathjen, P.D.
TI Mice homozygous for an inactivated alpha 1,3-galactosyl transferase gene
SO (19981215) . US Patent 5849991; US Class: 800/2; 800/DIG.1; 800/DIG.2; 435/172.3; 435/320.1; 435/354..

L2 ANSWER 35 OF 43 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 15
AU Shinkel, Trixie A.; Chen, Chao-Guang; Salvaris, Evelyn; Henion, Timothy R.; Barlow, Helen; Galili, Uri; Pearse, Martin J.; D'Apice, Anthony J. F.
TI Changes in cell surface glycosylation in α1,3-galactosyltransferase knockout and α1,2-fucosyltransferase transgenic mice
SO Transplantation (1997), 64(2), 197-204
CODEN: TRPLAU; ISSN: 0041-1337

L2 ANSWER 36 OF 43 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on

STN
AU Soulillou J P (Reprint)
TI Immunological problems specific to xenografts
SO BIODRUGS, (1997) Vol. 8, Supp. [1], pp. 29-32.
ISSN: 1173-8804.

L2 ANSWER 37 OF 43 MEDLINE on STN DUPLICATE 16
AU Tearle R G; Tange M J; Zannettino Z L; Katerelos M; Shinkel T A; Van Denderen B J; Lonie A J; Lyons I; Nottle M B; Cox T; Becker C; Peura A M; Wigley P L; Crawford R J; Robins A J; Pearse M J; d'Apice A J
TI The alpha-1,3-galactosyltransferase knockout mouse. Implications for xenotransplantation.
SO Transplantation, (1996 Jan 15) Vol. 61, No. 1, pp. 13-9.
Journal code: 0132144. ISSN: 0041-1337.

L2 ANSWER 38 OF 43 CAPLUS COPYRIGHT 2006 ACS on STN
IN Baetscher, Manfred W.; Sachs, David H.; Gustafsson, Kenth T.
TI α(1,3)-galactosyltransferase negative swine and use for prevention of xenogenic transplant rejection
SO PCT Int. Appl., 58 pp.
CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9528412	A1	19951026	WO 1995-US3940	19950331
W: AU, CA, JP, KR, MX, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2187802	AA	19951026	CA 1995-2187802	19950331
AU 9522332	A1	19951110	AU 1995-22332	19950331
EP 755402	A1	19970129	EP 1995-915459	19950331
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 10504442	T2	19980506	JP 1995-526984	19950331
US 6153428	A	20001128	US 1996-621700	19960326
US 6413769	B1	20020702	US 1997-929940	19970915
AU 9918505	A1	19990429	AU 1999-18505	19990301
AU 766519	B2	20031016	AU 2001-79336	20011010
US 2003014770	A1	20030116	US 2002-98276	20020315
AU 2004200177	A1	20040212	AU 2004-200177	20040116

L2 ANSWER 39 OF 43 CAPLUS COPYRIGHT 2006 ACS on STN
IN Pearse, Martin J.; Crawford, Robert J.; Robbins, Allan J.; Rathjen, Peter D.; d'Apice, Anthony J. F.
TI Minimizing hyperacute rejection in human xenotransplantation by elimination of xenoantibodies and of antigenic polysaccharides
SO PCT Int. Appl., 183 pp.
CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9520661	A1	19950803	WO 1995-IB88	19950127
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, UZ				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9515445	A1	19950815	AU 1995-15445	19950127
AU 695373	B2	19980813		
EP 755451	A1	19970129	EP 1995-907116	19950127
EP 755451	B1	20050525		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 09508277	T2	19970826	JP 1995-519965	19950127
BR 9506652	A	19970902	BR 1995-6652	19950127
AT 296349	E	20050615	AT 1995-907116	19950127

L2 ANSWER 40 OF 43 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

AU Galili, Uri [Reprint author]; Andrews, Peter
TI Suppression of alpha-galactosyl epitopes synthesis and production of the natural anti-Gal antibody: A major evolutionary event in ancestral Old World primates.
SO Journal of Human Evolution, (1995) Vol. 29, No. 5, pp. 433-442.
CODEN: JHEVAT. ISSN: 0047-2484.

L2 ANSWER 41 OF 43 LIFESCI COPYRIGHT 2006 CSA on STN
AU Galili, U.; Gregory, C.R.; Morris, R.E.
TI Contribution of anti-Gal to primate and human IgG binding to porcine endothelial cells
SO TRANSPLANTATION, (1995) vol. 60, no. 2, pp. 210-212.
ISSN: 0041-1337.

L2 ANSWER 42 OF 43 CAPLUS COPYRIGHT 2006 ACS on STN
AU Henion, Timothy R.; Macher, Bruce A.; Anaraki, Farvardin; Galili, Uri
TI Defining the minimal size of catalytically active primate α1,3 galactosyltransferase: structure-function studies on the recombinant truncated enzyme
SO Glycobiology (1994), 4(2), 193-201
CODEN: GLYCE3; ISSN: 0959-6658

L2 ANSWER 43 OF 43 MEDLINE on STN DUPLICATE 17
AU Galili U; Swanson K
TI Gene sequences suggest **inactivation** of **alpha-1 ,3-galactosyltransferase** in catarrhines after the divergence of apes from monkeys.
SO Proceedings of the National Academy of Sciences of the United States of America, (1991 Aug 15) Vol. 88, No. 16, pp. 7401-4.
Journal code: 7505876. ISSN: 0027-8424.

=> d bib ab l4

L4 ANSWER 1 OF 1 LIFESCI COPYRIGHT 2006 CSA on STN
AN 95:105699 LIFESCI
TI Contribution of anti-Gal to primate and human IgG binding to porcine endothelial cells
AU Galili, U.; Gregory, C.R.; Morris, R.E.
CS Dep. Microbiol. and Immunol., Med. Coll. Pennsylvania, Philadelphia, PA, USA
SO TRANSPLANTATION, (1995) vol. 60, no. 2, pp. 210-212.
ISSN: 0041-1337.
DT Journal
FS F
LA English
AB Hyperacute rejection of porcine organs transplanted into primates is mediated by natural preexisting IgM antibodies that bind to porcine endothelial cells (PEC) lining the porcine blood vessels, fix complement, and thus cause the lysis of these cells. A number of recent studies have suggested that a large proportion of these lytic antibodies display anti-Gal specificity. Anti-Gal is a natural antibody that constitutes approximately 1% of circulating immunoglobulins in Old World monkeys (monkeys of Asia and Africa), apes, and humans and can be produced by as many as 1% of B lymphocytes. It interacts specifically with the carbohydrate structure Gal alpha 1-3Gal beta 1-4GlcNAc-R (termed the alpha -galactosyl epitope), which is expressed as several millions of epitopes per cell in nonprimate mammals (including PEC) and New World monkeys (i.e., monkeys of South and Central America). The alpha -galactosyl epitope is absent from Old World monkeys, apes, and humans. This is since the gene for the glycosylation enzyme that synthesizes the alpha -galactosyl epitope (i.e., **alpha 1,3 galactosyltransferase**) was **inactivated** in ancestral Old World primates. Recent studies have indicated that hyperacute rejection of

porcine xenografts in primates could be prevented by inactivation of complement in the primate serum or by the expression of human decay accelerating factor or CD59 on the PEC of transgenic pigs used as the organ donors. In the absence of complement-mediated lysis, chronic destruction of porcine xenograft cells may be mediated by IgG antibodies binding to these cells and directing various killer cells (e.g., granulocytes and monocytes/macrophage) to bind to the antibody coated PEC via their Fc receptors, and exert the cytotoxic potential by the antibody-dependent cell cytotoxicity (ADCC) mechanism. Anti-Gal IgG isolated from normal human serum was indeed found to effectively mediate the destruction of **porcine cells**-including endothelial cells, smooth muscle cells, and fibroblasts-by ADCC. Since anti-Gal IgM antibody was found to be the main antibody-mediating complement-induced lysis of PEC, it was of interest to determine if anti-Gal is also the predominant serum IgG antibody that binds to live PEC, or whether there is a significant moiety of other natural IgG antibodies that interact with PEC. In order to simulate the interaction of IgG molecules with PEC lining blood vessels, the antibody binding was assessed with confluent monolayers of live PEC grown in 60-mm culture dishes (rather than with PEC in suspension or fixed PEC), and subsequently with super(125)I protein-A, which interacts specifically with the Fc portion of IgG molecules. The possible occurrence of IgG anti-PEC antibodies that are not anti-Gal was assessed by comparing anti-PEC activity in the serum of primates that lack anti-Gal-i.e., New World monkeys-with that in Old World monkeys, or human serum. In addition, the anti-PEC IgG antibody activity was determined in Old World monkey and human serum after the specific removal of anti-Gal from the serum by adsorption. Dog sera, which contain anti-PEC antibodies, but lack anti-Gal because of synthesis of autologous alpha -galactosyl epitopes, were used as control.

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